

tgacctgctt	ccatgctgca	tctgctgctt	tttgtgttga	tgggactcag	aatcatgag	1260
aaaggtcttc	agtgatccat	gactgcaaca	aattcttttc	ctaattgtgc	cgtatattat	1320
gcccctcaat	acaacttact	aatctctgcc	tcagtttctc	catctgtgaa	agtgggtgtaa	1380
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aataaagaat	gatataaagc	attg				1464

<210> 5393
 <211> 565
 <212> DNA
 <213> Homo sapiens

<400> 5393						
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cttcagtggg	ttgtggaaga	gagaatctga	tgattcatgc	cctcctaccc	tgtagaatt	180
aggacagggg	atggcagacc	ctaaacatac	atgtgaactg	agcaaagatt	gcctttgctt	240
cacctattga	cacatttaag	aacctcggtt	tatagagagt	acggagtggg	gtctgagatt	300
ctacatttct	tacaagttcc	tggtttatgc	cagttctggt	tgtctggtca	ccacacttct	360
gaatagcaag	gtttcagagg	actctatgaa	gtttttatatt	ctcaaaaatt	tggttaggt	420
acatctttac	atacagtggg	gctagatatt	attctttcag	aacttaacca	tgcaacaatg	480
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tgaactgatt	cctaacttta	catat				565

<210> 5394
 <211> 565
 <212> DNA
 <213> Homo sapiens

<400> 5394						
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aatttagttt	ttaccaaagt	gaccctttta	gagaaagaag	catcaggata	aagtcccaat	120
cttcagtggg	ttgtggaaga	gagaatctga	tgattcatgc	cctcctaccc	tgtagaatt	180
aggacagggg	atggcagacc	ctaaacatac	atgtgaactg	agcaaagatt	gcctttgctt	240
cacctattga	cacatttaag	aacctcggtt	tatagagagt	acggagtggg	gtctgagatt	300
ctacatttct	tacaagttcc	tggtttatgc	cagttctggt	tgtctggtca	ccacacttct	360
gaatagcaag	gtttcagagg	actctatgaa	gtttttatatt	ctcaaaaatt	tggttaggt	420
acatctttac	atacagtggg	gctagatatt	attctttcag	aacttaacca	tgcaacaatg	480
cagaagaata	caaaaaatgc	ttgcacacag	tagtgtattt	taatggaact	ataaaaagcat	540
tgaactgatt	cctaacttta	catat				565

<210> 5395
 <211> 240
 <212> DNA
 <213> Homo sapiens

<400> 5395						
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taaaaataca	aaaaattacc	cgggcgtggg	ggcgggcacc	tgtagtccca	gctactcggg	120
aggctgaggc	aggagaatgg	tgtgaaccca	ggagacggag	cttgcaatga	gccgagatcg	180
cgccactgca	ctctagcctg	ggcgacagag	caagactccg	tctcaaaaac	aaaaaaaaaa	240

<210> 5396
 <211> 1275
 <212> DNA
 <213> Homo sapiens

<400> 5396

cagaattcct	ttctcatatt	tcaagtgtcc	ctgtgaatta	tgaggggaaa	aaaatcttta	60
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gatattttaa	ttatttgtat	acacacacac	acacacacac	acaçacacac	acacgtatct	180
gtacctagaa	atgttttatag	gggagggtcag	ttttctgaag	attaaatgca	gccctaattgt	240
cagattaatg	ttataaacac	atcgtttaat	cacaagtttt	cagagagcag	gctccacaga	300
tagtctctaa	ctttctatca	ttacaaatcg	ctatttttat	atcattgcta	atttaaataa	360
taaagtaaat	tatgaagagg	aatcattggg	tgcaagtcac	catgggagtt	tagtccctgt	420
gaaaatataa	agcattttaa	taatttgtat	tcttttacca	ttttttatta	catctcttta	480
atctttgtca	cttgaatata	ttaggatgat	gatgatacta	taatcactgg	aacaaagaca	540
tttgcttgga	catcttttct	tttttcccc	atctttgttc	tgtaataaat	ttttaactat	600
agcttttctt	ttcttgtcct	tatctgtccc	ttatcgatca	tagatagttt	cactactatt	660
tttaagtttt	tattgttaaa	ttgaagatga	atctgtacag	ttacttgtga	attaagatgc	720
agctaagtta	aaatcaagta	taattttgaa	gctgatttta	catttaacta	gatgattaaa	780
tatatTTTTT	cagggtgcttc	ttcaatttaa	atcaagtttt	atggtttcag	caaaatttag	840
aaaatatgta	ctttacctaa	aaacttttct	tttagtgctt	tggaatatata	cagaagctta	900
aattgagtaga	gtatcccaaa	catccagatg	cttctcaaaa	tagcatttcc	ggccggggcgc	960
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aattagccgg	gcgtagtggc	gggcgcctgt	agtcccagct	acttgggagg	ctgaggcagg	1140
agaatagcgt	gaacccggga	ggcggagctt	gcagtgagcc	gagatcccg	cactgcactc	1200
cagcctgggc	gacagagcga	gactccgtct	caaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1260
aaaaaaaaaa	aaaaa					1275

<210> 5397
 <211> 242
 <212> DNA
 <213> Homo sapiens

<400> 5397						
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aaatacaaaa	aattagccgg	gcgaggtggc	gggcgcctgt	agtcccagct	actcgggagg	120
ctgaggcagg	agaatggcgt	gaacccaggg	ggcggagcc	tgagtgcagc	cgagattgag	180
ccactgcact	ccagcctggg	cgacagcgag	actccgtctc	aaaaaaaaaa	aaaaaaaaaa	240
gc						242

<210> 5398
 <211> 90
 <212> DNA
 <213> Homo sapiens

<400> 5398						
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aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa				90

<210> 5399
 <211> 181
 <212> DNA
 <213> Homo sapiens

<400> 5399						
aattagccgg	gcgtgggtggc	aggcgcctgt	agtcccagct	acttgggagg	ctgaggcagg	60
agaatggcgt	gaaccagggg	ggcggagctt	gcagtgcagc	gagatcgcg	cactgcactc	120
cagcctgggc	gacagggcaa	gactccgtct	caaaaaaaaa	aaaaaaaaaa	aaaaaattgt	180
g						181

<210> 5400
 <211> 142

<212> DNA
 <213> Homo sapiens

<400> 5400
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 aggtggagct tgcagtgagc cgagattgtg ccactgaact ccagcctggg cgacagagcg 120
 agactctgtc tcaaaaaaac aa 142

<210> 5401
 <211> 295
 <212> DNA
 <213> Homo sapiens

<400> 5401
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 gcacgaggtc aggagatcga gaccatcctg gctaacacgg tgaacccca tctctactaa 120
 aaatacaaaa aattagccag gcgtgggtggc ggggtgcctgt agtcccagct actcgggagg 180
 ctgaggccag agaatggcgt gaacccggga ggccggagctt ccagtgagcc gagatcatgc 240
 cactgcactc cagcctgggc aacagagcga gactccgtct caaaaaacaa aacaa 295

<210> 5402
 <211> 319
 <212> DNA
 <213> Homo sapiens

<400> 5402
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 ggatcatgag gtcaggagat cgagaccatc ctggctaaca cagtgaacc ccgcctctac 120
 taaaaataca aaaaattagc cgggcgtggt ggccggcgcc tgtagtcca gctactcggg 180
 aggctgaggc gggagaatgg cgtgaacccg ggaggcggag cttgcagtga gccgagatcg 240
 cgccactgca ctccagcctg ggcgacagag cgagactccg tctcaaaaaa aaaaaagaaa 300
 aaaaaaaaaa agagcaca 319

<210> 5403
 <211> 316
 <212> DNA
 <213> Homo sapiens

<400> 5403
 gaattcttgg ccgggcacgg tggctcacgc ctgtaatccc agcactttgg gaggccgagg 60
 cgggcggtac acgaggtcag gagatcgaga ccatcctggc taacacggtg aaaccccgtc 120
 tctactaaaa atacaaaaaa ttagccgggc gtggtagcgg gcgcctgtag tcccagctac 180
 tcgggagggt gaggcaggag aatggcgtga acctggcagg cgagccttgc agtgagccga 240
 gatcgcgcca ctgcactcca gcctgggtga cagagcgaga ctccgtctca aaaaaaaaaa 300
 aaaaaaaaaa gaattc 316

<210> 5404
 <211> 102
 <212> DNA
 <213> Homo sapiens

<400> 5404
 gaggttgacg tgagctgaga tcacgccact gcactccagc ctgggtgaca gagcaagact 60
 ccatctcaaa aaaaaaaaaa aaaaaaaaaa aaactaataa tc 102

<210> 5405

<211> 322
 <212> DNA
 <213> Homo sapiens

<400> 5405
 taattacaaa aaaatcggcc aggcgcggtg gctcacgcct gtaatcccag cactttggga 60
 ggccgaggcg ggcggatcac gaggtcagga gatcgagacc atcccggcta aaacggtgaa 120
 acccgtctc tactaaaaat acaaaaaatt agccgggcgt agtggcgggc gcctgtagtc 180
 ccagccactt gggaggctga ggcaggagaa tggcgtgaac ccgggaggcg gagcttgagc 240
 cgagccgaga tcccgccact gcactccagc ctgggcgaca gagcgagact ccatctcaaa 300
 aaaaaaaaaa aaaaaaaaaa aa 322

<210> 5406
 <211> 286
 <212> DNA
 <213> Homo sapiens

<400> 5406
 cactttggga ggcccaggcg ggcggatccc gaggtcagga gatccagacc atcctggcta 60
 acacggtgaa acccgtctc tactaaaaat accaaaaatt agccgggcgt ggtagcgggc 120
 gcctgtagtc ccagctactc gggaggctga ggcaggagaa tggcgtgaac ccgggaggcg 180
 gagcttgagc tgagccgaga tcgcgccact gcactccagc ctgggcgaca gagcgagact 240
 ccgtctcaaa aaaaaaaaaa aaagaaaaga aaaaaaaaaa aaaaga 286

<210> 5407
 <211> 305
 <212> DNA
 <213> Homo sapiens

<400> 5407
 gggcgcggtg gctcacgcct gtaatcccag cactttggga ggccgaggcg ggcggatcac 60
 gaggtcagga gatcgagacc atcccagcta aaacggtgaa acccgtctc tactaaaaat 120
 acaaaaaatt agccgggcgt agtggcgggc acctgtagtc ccagctactt gggaggctga 180
 ggcaggagaa tggcgtgaac ccgggaggcg gagcttgagc tgagccgaga tcccgccact 240
 gcactccagc ctgggcgaca gagcgagact ccgtctcaaa aaaaaaaaaa aaaaaaaaaa 300
 agaaa 305

<210> 5408
 <211> 284
 <212> DNA
 <213> Homo sapiens

<400> 5408
 gctcacacct gtaatccac actttgggag gccaaggtgg gcagatcacg aggtcaggag 60
 atcgagacca tcctggccaa cacggtgaaa ccccatctct actaaaaata caaaaaatta 120
 gccgggcgtg gtggcaggca cctgtagtcc caactacttg ggaggctgag gcaggagAAC 180
 agcgtgtacc caggaggcgg agcttgagc gagccaagat tgcgccactg cactccagcc 240
 tgggcgacag agggagactc cgtctcaaaa aaaaaaaaaa aaga 284

<210> 5409
 <211> 316
 <212> DNA
 <213> Homo sapiens

<400> 5409
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 ccgaggcggg cggatcacga ggtcaggaga tcgagaccat cccggctaaa acggtgaaac 120

cccgctctcta	ctaaaaatac	aaaaaattag	ccggggcgtag	tggcggggcgc	ctgtagtccc	180
agctacttgg	gaggctgagg	caggagaatg	gcgtgaaccc	gggaggcgga	gcttgagtg	240
agccgagatc	ccgccactgc	actccagcct	gggcgacaga	gcgagactcc	gtctcaaaaa	300
aaaaaaaaaa	aatttg					316

<210> 5410
 <211> 283
 <212> DNA
 <213> Homo sapiens

<400> 5410						
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agaccatcct	ggctaacacg	gtgaaacccc	gtctctacta	aaaatacaaa	aaattagcca	120
ggcgtggtgg	cgggggcctg	tagtcccagc	tactcgggag	actgaggcag	gagaatggcg	180
tgaacccggg	aggtggagcc	tgacgtgagc	cgagatcgcg	ccactgcact	ccagcctggg	240
cgacagagcc	agactccatc	tcaaaaaaaaa	aaaaaaaaaaa	aaa		283

<210> 5411
 <211> 93
 <212> DNA
 <213> Homo sapiens

<400> 5411						
aggcggagtt	tgacgtgacc	ggagatcgcg	ccactgcact	ccagcctggg	tgacagagca	60
agactctgtc	tcaaaaaaaaa	aaaaaaaaaaa	aaa			93

<210> 5412
 <211> 293
 <212> DNA
 <213> Homo sapiens

<400> 5412						
gtggctcacg	cctgtaatcc	cagcacttctg	ggaggccgag	gtgggtggat	cacgaggtca	60
ggagatcgag	accatcctgg	ctaacacggg	gaaaccccgt	ctctactaaa	aatacaaaaa	120
attagctggg	tgtggtggcg	ggcgccctgt	gtcacagcta	cttgggagac	tgaggcagga	180
gaatggcatg	aacccgggag	gtgcagcttg	cagttagcag	agatctcgcc	actgcactcc	240
agcctgggcg	acagagcgag	acttcatctc	aaaaaaaaaa	agaaagaaag	taa	293

<210> 5413
 <211> 295
 <212> DNA
 <213> Homo sapiens

<400> 5413						
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ggagattgag	accatcctgg	ctaatatggt	gaaaccccgt	ctctactaaa	aatacaaaaa	120
aattagccgg	gcgtggtggc	acacgcctgt	aatcccagct	acttaggagg	ctgaggcagg	180
agaatggtgt	gaacccggga	ggcggagctt	gcagttagcc	gagttcgggc	cactgcactc	240
cggcctgggc	aacagagcga	gactccgtct	caaaaaaaaa	aaaaaaaaaa	aaaaa	295

<210> 5414
 <211> 170
 <212> DNA
 <213> Homo sapiens

<400> 5414

taaaaataca	aaaaattagc	cgggcgtagt	ggcggggcgcc	tgtagtccca	gctacttggg	180
aggctgaggg	aggagaatgg	cgtgaacccg	ggaggcgagg	cttgacagtga	gcggagatcc	240
cgccactgca	ctccagcctg	ggcggcgagag	cgagactccg	tctcaaaaaa	aaaaaataat	300
aataat						306

<210> 5420
 <211> 294
 <212> DNA
 <213> Homo sapiens

<400> 5420						
gcgcggtggc	tcacgcctgt	aatcccagca	ctttgggagg	ctgaggcggg	cggatcacga	60
ggtcaggaga	tcgagacat	cctgggctaac	acgggtgaaac	cccatctcta	ctaaaaatac	120
aaaaaattag	ccgggcgagg	tggcgggtgc	ctgtagtccc	agctactcgg	gaggctgagg	180
caggagaatg	gcgtgaaccc	gggaagcgga	gcttgacagt	agccgagatt	gcgccattgc	240
actccagcct	gggtgacagc	gagactccgt	ctcaaaaaaa	aaaaaaaaaag	aagt	294

<210> 5421
 <211> 184
 <212> DNA
 <213> Homo sapiens

<400> 5421						
cgtggtggcg	ggcgcctgta	gtcccagcta	ctcgggaggg	tgaggcagga	gaatggcgtg	60
aacctgggag	gcggagcttg	cagtgaagccg	agatcgcgcc	actgcactcc	agcctggggc	120
acagagcgag	agtccgtctc	aaaaaaaaaa	aaaaaaaaaag	aaagaaaaaa	gaacaaacaa	180
cagc						184

<210> 5422
 <211> 305
 <212> DNA
 <213> Homo sapiens

<400> 5422						
tggctaggca	cgggtggctca	cgcctggagt	cccagcactt	tgggaggccg	aggcggggcag	60
atcacgaggt	caggagatcg	agaccatcct	ggctaacacg	gtgaaaccct	gtctctacta	120
aaaatacaaa	aaattagcca	ggcgtgggtg	cgggcgcctg	taatcccagc	tactcgggag	180
gctgaggcag	gagaatggca	tgaacccggg	aggcggagct	tgacgtgagc	ggagatggca	240
ccactgcact	ccagcctggg	caacagagcg	agactccgtc	ccaaaaaaa	aaaaaaaaaa	300
aaaca						305

<210> 5423
 <211> 258
 <212> DNA
 <213> Homo sapiens

<400> 5423						
ccgaggcggg	cggatcacga	ggtcaggaga	tcgagacat	cctgggctaac	acgggtgaaac	60
cccgtctcta	ctaaaaaaa	caaaaaatta	gccaggcggtg	tggcggcacc	ctgcagtccc	120
agctacttgg	gaggctgagg	caagagaatg	gcgtgaaccc	ggaaggcgga	gcttgacagt	180
agccgagatc	gcgcactgc	actccagcct	gggcgacaga	gcgagctccg	tctcaaaaaa	240
aaaaagaata	aaaatgga					258

<210> 5424
 <211> 299
 <212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (18)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (27)

<223> n equals a,t,g, or c

<400> 5424

taatcccagc	actttggnag	gccgagncgg	gcggatcacg	aggtcaggag	atcgagacca	60
tcccggctaa	aacggtgaaa	ccccgtctct	actaaaaata	caaaaaatta	gccgggcgta	120
gtggcgggcg	cctgtagtcc	cagctacttg	ggaggctgag	gcaggagaat	ggcgtgaacc	180
cggaaggcgg	agcttgacgt	gagccgagat	cccgccactg	cactccagct	tgggcgacag	240
agcgagactc	cgtctcaaaa	aaaaaaaaaa	aaacaaaaaca	aacaaacaaa	aaaaaacaa	299

<210> 5425

<211> 147

<212> DNA

<213> Homo sapiens

<400> 5425

ggtcccagct	actcgggagg	cttaggcagg	agaatggcgt	gaaccagga	ggtggagctt	60
gcagtgagcc	gagatcgcg	cactgcactc	cagcctgggc	gacagagcga	gactccatct	120
caaaaaaaaa	aaaaaaaaaa	aattgtg				147

<210> 5426

<211> 312

<212> DNA

<213> Homo sapiens

<400> 5426

acaccaggcc	gggcacggtg	gctcatgcct	gtaatcccag	cactttggga	ggccgagacg	60
ggcggatcac	gaggtcagga	gatcaagacc	aacctggcta	acacggtgaa	accccgcttc	120
tactaaaaat	acaaaaaatt	agccgggcgt	ggtggcggtt	tgccttttgt	cccagctact	180
cgggaggctg	aggcaagaca	atggcgtgac	cctgggaggc	ggagcttgca	gtgagctgag	240
atcgcgccac	tgcactccac	cctgggtgac	agagcgagac	tccgtctcaa	aaaaaaaaaa	300
aaaaaaaaaa	aa					312

<210> 5427

<211> 169

<212> DNA

<213> Homo sapiens

<400> 5427

aaaattagcc	aggcgtgatg	gtgggtgcct	gtagtcccag	ctacttggga	ggctgaggca	60
ggagaatggc	gtgaaccag	gaggtggagc	ttgcagtgag	ctgagatcgc	gccactgcac	120
tccagcctgg	gcgacagagt	gagactccat	ctcaaaaaaa	aaaaaaaga		169

<210> 5428

<211> 278

<212> DNA

<213> Homo sapiens

<400> 5428
 cccacacttt gggaggccga ggcaggcaga tcacgaggtc aggagatcga gaccatcttg 60
 gctaacatgg tgaaaccccg tctctactaa acaaaatata aaaaattagc cgggcgtgat 120
 ggcgggccc tgtggtccca gctactcggg aggctgaggc aggagaaatgg catgaacccg 180
 ggaggcagag cttgcagtga gccgagatcg cgccactgca ctccagcctg ggtgacagag 240
 tgagactccg tctcaaaaaa aaaaaaaaaa aaaaaaaa 278

<210> 5429
 <211> 316
 <212> DNA
 <213> Homo sapiens

<400> 5429
 tcagccggcg cgggtggctca cgctgtaat cccagcactt tgggaggccg aggcgggccc 60
 atcacgaggt caggagatcg agaccatccc ggctaaaacg gtgaaacccc gtctctacta 120
 aaaatacaaa aaattagccg ggcgtagtgg cgggcgcctg tgggtcccagc tacttgggag 180
 gctgaggcag gagaatggcg tgaacccggg aggcggagct tgcagtgagc cgagatcccc 240
 ccactgcact ccagcctggg cgacagagcg agactccgct tcaaaaaaaaa ataaaaataa 300
 ataaaaaaaa agaata 316

<210> 5430
 <211> 293
 <212> DNA
 <213> Homo sapiens

<400> 5430
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 gaaatcgaga ccacccctgt taacaaggta aaaccccgct tctactaaaa atacaaaaaa 120
 ttagccaggt gtggtggcgg gcgcctgtaa tctcagctac ttgggaggct gaggcaggag 180
 aacggcgtga acctgggagg cggagcttgc agtgagccga gattgcgcca ctgcactcca 240
 gcctggggga cagaccgaga ctctgtctca aaaaaaaaaa aaaaaaaaaa aaa 293

<210> 5431
 <211> 207
 <212> DNA
 <213> Homo sapiens

<400> 5431
 attaaaaccc catctctact aaaaatacaa aaaattagct gggcgtgggt ggcaggcgcc 60
 tgtagtccca gctactctgg aggctgaggc aggagaaatgg catgaacctg ggaggcggag 120
 cttgcagtga gccgagattg cgccactgca ctccagcctg ggtgacagag cgagactctg 180
 tctcaaaaaa aaaaaaaaaa agaaata 207

<210> 5432
 <211> 131
 <212> DNA
 <213> Homo sapiens

<400> 5432
 ggaggctgag gcaggagaat ggcgtgaacc caggaggcgg agcttgagct gagctgagat 60
 tgcgccactg cactccagcc tgggcaacag agcgagactc cgtctgaaaa aaaaaaaaaa 120
 aaaaactggg g 131

<210> 5433
 <211> 188
 <212> DNA

<213> Homo sapiens

<400> 5433

ttaaaaatac	aaaaaattag	ctgggcgtgg	tggcgggtgc	tgtagtccca	gctactcagg	60
aggctgaggc	aggagaatgg	cgtgaaccca	ggaggcggag	attgcagtga	gccgagatcg	120
caccactgca	ctccagcctg	ggcaacagag	cgagactccg	tctcaaaaaa	agaaaaaaaa	180
aagaaagt						188

<210> 5434

<211> 241

<212> DNA

<213> Homo sapiens

<400> 5434

ggcggatcac	gaggtcagga	gattgagatc	atcctggcta	acacggtgaa	accccgctctc	60
tactaaaaaa	tacaaaaaat	tagccgggcg	tgggtggggg	cgctgtagt	cccagctact	120
tgggaggctg	aggcaggaga	atgggtgtgaa	cccgggaggc	agagcttgca	gtgagctgag	180
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<210> 5435

<211> 160

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (30)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (82)

<223> n equals a,t,g, or c

<400> 5435

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gcgagactct	gtctcaaaaa	aaaaaaaaaa	aaaaaaaaag			160

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<211> 227

<212> DNA

<213> Homo sapiens

<400> 5436

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atgaaccgg	gaggtggagc	ttgcagttag	ctgagatcgc	gccactgcac	tccagcctgg	180
gcaacagagc	gagactctgt	ctcaaaaaaa	aaaaaaaaaa	tcaagta		227

<210> 5437

<211> 68

<212> DNA

<213> Homo sapiens

<220>

[illegible]

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<210> 5438
<211> 235
<212> DNA
<213> Homo sapiens
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<220>
<221> SITE
<222> (230)
<223> n equals a,t,g, or c
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<211> 268
<212> DNA
<213> Homo sapiens
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<400> 5439							
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ctgtagtccc	agctacttgg	gagactgagg	cagaagaacg	gcgtgaatct	gggaggcgga		180
gcttgcaagt	agccgagatc	acaccacagc	actccagctt	gggcgacaga	gcgagactcc		240
gtctcaaaaa	aaaaaaaaaa	aaaaaaga					268

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<211> 127
<212> DNA
<213> Homo sapiens
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aaaaaag                                           127
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<211> 187
<212> DNA
<213> Homo sapiens
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ag	tact	tgg	gagg	ctgag	cagg	aga	atg
ag	ccg	gat	cgc	ccact	gc	gtc	cag
aaaa	aaaa						
							60
							120
							180
							187

<210> 5442
<211> 298
<212> DNA
<213> Homo sapiens

<400> 5442
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aaattagccg ggcgtggtgg cggggcccctg tagtcccagc tatttgggag gctgaggcag 180
gagaatggag tgaatccggg aggcagagct tgcagtgagc tgagatcgtg ccactgcatt 240
ccagcctagg cgacagagcc agactctgtc tcaaaaaaaaa aaaaaaaaaa aaaaaatt 298

<210> 5443
<211> 44
<212> DNA
<213> Homo sapiens

<400> 5443
gcaaaactcc gtctcaaaaa aaaaaaaaaa aaaaaaaaaa aaga 44

<210> 5444
<211> 220
<212> DNA
<213> Homo sapiens

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ggagcttgca gtgagccgag atggcgccac tgcactccag cctgggagcag agagcgagac 180
tccttctcaa aaaaaaaaaa aaaaaaaaaa aagagagaaa 220

<210> 5445
<211> 306
<212> DNA
<213> Homo sapiens

<400> 5445
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aaagaa 306

<210> 5446
<211> 143
<212> DNA
<213> Homo sapiens

<400> 5446
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ctcaaaaaaa aaaaaaagaa atg 143

<210> 5447

<211> 170
<212> DNA
<213> Homo sapiens

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tgggcgacag agcgagactc cgtctcaaaa aaaaaaaaaa aaaaagactg 170

<210> 5448
<211> 271
<212> DNA
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gtctgtagtc ccagctactc aggaggctga ggcaggagaa tggcgtgaac ccgggaggcg 180
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tctgtctcaa aaaaaaaaaa aaaaaagaaa a 271

<210> 5449
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<212> DNA
<213> Homo sapiens

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<210> 5450
<211> 296
<212> DNA
<213> Homo sapiens

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<210> 5451
<211> 135
<212> DNA
<213> Homo sapiens

<400> 5451
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<210> 5452
<211> 171
<212> DNA
<213> Homo sapiens

[illegible]

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<211> 319
<212> DNA
<213> Homo sapiens
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<211> 307
<212> DNA
<213> Homo sapiens
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<210> 5460
<211> 311
<212> DNA
<213> Homo sapiens
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<210> 5461
<211> 300
<212> DNA
<213> Homo sapiens
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2515

<210> 5467
<211> 219
<212> DNA
<213> Homo sapiens

<400> 5467
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cccaggaggc ggagcttgca gagagccgag atctcgccac tgcactccag cctggggcgac 180
agagcgagac tccgtctcaa aaaaaaaaaga aaaaagaaa 219

<210> 5468
<211> 301
<212> DNA
<213> Homo sapiens

<400> 5468
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aatacaaaaa ttagccggggc atggtggcgc gcgcctgtag tcccagctac acggggaggct 180
gaggcaggag aatggcggtga acccgggagg cggagcttgc agtgagtcga gatcgcgcca 240
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<210> 5469
<211> 154
<212> DNA
<213> Homo sapiens

<400> 5469
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gcttgacgtg agccgagatc acgccactgc actccagcct gggccacaga gcgagactcc 120
gtctcaaaaa aaaaaaaaaa aaagaaagaa attg 154

<210> 5470
<211> 2548
<212> DNA
<213> Homo sapiens

<400> 5470
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<400> 5472						
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aaaaaaaaaa	aaaaaaaaaa	gactgctg				207

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 <212> DNA
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 <213> Homo sapiens

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g						

<210> 5487
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 <212> DNA
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 <212> DNA
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ggctgaggca	ggagaatggc	gtgaacccgg	taggcggagc	ttgcagttag	ccgagattgc	240
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267

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<213> Homo sapiens

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aaacaaaga	129

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<212> DNA
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<212> DNA
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<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<213> Homo sapiens

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<212> DNA
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<210> 5515
 <211> 269
 <212> DNA
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<400> 5515
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 ggcgggccc tgtagtcca gctactcggg aggcctgaggc aggagaatgg cgtgaacccg 180
 ggaggcggag cttgcagtga gccgagattg cgccactgca ctccagcctg ggcgacagag 240
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<210> 5516
 <211> 202
 <212> DNA
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<400> 5516
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 aaaaaaaaaa aaaaaaaaaa aa 202

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 <211> 203
 <212> DNA
 <213> Homo sapiens

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 gccgagatct cgccactgca ctccagcctg ggcgacagag cgagactccg tctcaaaaaa 180
 aaaaaaaaaa aaagacatgt aaa 203

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 <211> 121
 <212> DNA
 <213> Homo sapiens

<400> 5518
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 a 121

<210> 5519
 <211> 166
 <212> DNA
 <213> Homo sapiens

<400> 5519
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atacaaaaaa ttagccgggc gtggtggcgg gcgcctgtag tcccagctac tcgggaggct	180
gaggcgggag aatggcgtga acccaggagg tggagcttgc agtgagccga gatcatgcca	240
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<210> 5521
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tactagaaat acaaaaaaat tagccgggca tgggtggtggg cacctgtagt cccagctact	180
cgggaggctg aggaggaga atggcatgaa cccgggagggt ggagcttgca gtaagctgag	240
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gaaaagaaaa	310

<210> 5522
 <211> 280
 <212> DNA
 <213> Homo sapiens

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ctaaaaatac aaaaaattag ccgggcgtag tggcgggcgc ctgtagtccc agctacttgg	120
gaggctgagg caggagaatg gcgtgaaccc gggaggcgga gcttgagtg agccgagatc	180
ccgccactgc actccagctt gggcgacaga gcgagactcc gtctcaaaaa aaaaaaata	240
aataaaaaaa aaaaaaaaaa aaaaaaaaag aaaagaaaaa	280

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 <212> DNA
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gcctgggcga cagagcgaga ctccgtctca aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	180
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<210> 5524
 <211> 278
 <212> DNA
 <213> Homo sapiens

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ggtgggcgcc tgtagtccca gctactcggg aggttgaggc aggagaatgg cgtgaaccca	180

gaggctgagg	caggagaatg	gtgtgaaccc	aggaggcgga	gcttgcaagt	agccaagatc	240
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aaaa						304

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 <212> DNA
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<210> 5528
 <211> 297
 <212> DNA
 <213> Homo sapiens

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<210> 5529
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 <212> DNA
 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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ggcgatcac	gaggtcagga	gatcgagacg	atccccgcta	aaacggtgaa	accccgctct	120
tactaaaaat	acaaaaaatt	agccgggcgt	agtggcgggc	gcctgtagtc	ccagctactt	180
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tcccgcact	gcactccagc	ctgggggaca	gagcgagact	ccgtctcaaa	aaaaaaaaaa	300
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<210> 5531
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 <212> DNA
 <213> Homo sapiens

<400> 5531

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ctgtctcaga	aaaaaaaaa	aaaaagaaaa	aagaaaaat			158

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 <212> DNA
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caccactata	ctccaggctg	ggggacagaa	cgagacccca	tctcaaaaaa	aaaaagaa	298

<210> 5533
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 <212> DNA
 <213> Homo sapiens

<400> 5533						
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caaaaaatta	gccgggcgtg	gtggcaggcg	cctgtagtcc	cagctactcg	ggaggctgag	120
gcaggagaat	ggcgtgaatc	cagggtggagc	ttgcagttag	ctgagatcgc	gccactgcac	180
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 <211> 296
 <212> DNA
 <213> Homo sapiens

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<210> 5535
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 <212> DNA
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<400> 5535						
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<210> 5536
 <211> 294
 <212> DNA
 <213> Homo sapiens

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<210> 5537
<211> 303
<212> DNA
<213> Homo sapiens

<400> 5537
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aaa 303

<210> 5538
<211> 191
<212> DNA
<213> Homo sapiens

<400> 5538
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<210> 5539
<211> 193
<212> DNA
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<400> 5539
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<210> 5540
<211> 195
<212> DNA
<213> Homo sapiens

<400> 5540
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actgcactcc agcctggggc acagagcgag actccgtctc aaaaaaaaaa aaaaaaaga 180
taattctaac aaaca 195

<210> 5541
<211> 281

<212> DNA
<213> Homo sapiens

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gcctgtgggc ccagctactc gggaggctgg ggcaggagaa tggcgcgaaac ccgggagggcg 180
gagcttgagc tgagccgaga tcgcgccacc gcactccagc ctgggcgaca gagcgagact 240
ccgtctcaaa aaaaaaaaaa agaaaaagaa aaaggacaac a 281

<210> 5542
<211> 301
<212> DNA
<213> Homo sapiens

<400> 5542
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<210> 5543
<211> 310
<212> DNA
<213> Homo sapiens

<400> 5543
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tcacaagggtc aggagatcga gaccatcctg gctaacacgg tgaaaccccg tctctactaa 120
aaatacaaaa acaaaactag ccgggcttgg tgggtgggcgc ctgtagtccc agctactcaa 180
gaggctgagg caggagaatg gcgtgaactc gggaggcgga gcttgcaatg agccgagatc 240
gcgccactgc actccagcct gggcgacaga gcgagactcc gtctcaaaaa aaaaaaaaaa 300
aaaaaaaaaa 310

<210> 5544
<211> 297
<212> DNA
<213> Homo sapiens

<400> 5544
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ggtcaggaga tcgagaccat cctgggtaac acggtgaaac cctgtctcta ctaaaaatac 120
aaaaaattag ccgggcgtgg tggcgggtgc ctgtagtccc agctactcgg gaggccgagg 180
caggagaatg gtgtgaaccc gggagggtgga gcttgcaatg agccgagatc gggccactgc 240
actccagcct gggcgacaga gcaagactct gtctcaaaaa aaaaaaagaa atggaaa 297

<210> 5545
<211> 182
<212> DNA
<213> Homo sapiens

<400> 5545
tactaaaaat acaaaaagtt agccggggcga agtggcgggc gcctgtagtc ccagctactc 60
gggaggctga ggcaggagaa tggcgtgaac ccgggaggcg gagcttgagc tgagccgaaa 120
tcgcgccact gcactccagc ctgggtgaca gagcgagact ccgtctcaaa aaaaaaaaaa 180

aa

182

<210> 5546
<211> 303
<212> DNA
<213> Homo sapiens

<400> 5546
ataggctggg cgcggtggct cacgcctgta atcccagcac tttgggagggc cgaggcaggc 60
ggatcatgag gtcaggagat cgagaccatc ctggctaaca cgggtgaaacc cagtctctac 120
taaaaataca aaaaattagc tgggtgtgct ggaggcatc tgtagtccca actactcggg 180
aggctgaggc gggagaatgg catgaacctg ggaggcggag cttgcagtga gccgagatca 240
cgccactgca ctccagcctg ggcgacagag tgagactacc tctccaaaaa aaaaaaaaaa 300
aaa 303

<210> 5547
<211> 297
<212> DNA
<213> Homo sapiens

<400> 5547
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acaaaaaatt agcagggcgt ggtggcgggc gcgtgtagtc ccagctactc aggaggctga 180
ggcaggagaa tggagtgaac ccaggaggcg gacgtgcagt gagccgagat cgcgccactg 240
cactccagcc tgggcgacag agcaagactc cgtctcaaaa aaaaaaaaaa aaaaaaa 297

<210> 5548
<211> 323
<212> DNA
<213> Homo sapiens

<400> 5548
aaaaaactat ttttcggccg ggggggggtg atcacgcctg taatcccagc actttgggag 60
gccgaggcgg gcagatcacg aggtcaggag atcgagacca tcctggctaa cacgggtgaaa 120
ccccgtctct actaaaaaaaa caaaaaatta gccgggcgtg gtagcgggag cctgtagtcc 180
cagctactcg ggaggctgag gcaggagaat ggcgtgaacc cgggaggcgg agcttgcagt 240
gagccgagat cgcgccactg cactccagcc tgggcgacag agcgagactc cgtctcaaaa 300
aaaaaaaaaa aaaaaaacaa aaa 323

<210> 5549
<211> 277
<212> DNA
<213> Homo sapiens

<400> 5549
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ggcgggcacc tgtagtccca gctactccgg aggctgaggc aaggagaatg gcgtgaacct 180
gggaggcggg gcttgcagtg agccgagatg gcgccactgc actccagcct ggggtgatgga 240
gcgagacttg tctcaaaaaa aaaaaaaaaa agaataa 277

<210> 5550
<211> 303
<212> DNA
<213> Homo sapiens

<400> 5550
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 atacaaagaa ttagccgggt gtgggtggcg acgcctgtag tcccagctac tcgggagggt 180
 gaggcaggag aatggcggga acccgggagg cagagcttgc agtgagccaa gatcgtgccca 240
 ctgcactcca gcctgggtga cagagcgaga ctccacctca aaaaaaaaaa aaaaaaaaaa 300
 gaa 303

<210> 5551
 <211> 309
 <212> DNA
 <213> Homo sapiens

<400> 5551
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 cgtagtggcg ggcgcctgta gtcccagcta cttgggaggc tgaggcagga gaatggcgtg 180
 aacccgggag gctgagcttg cagtgagccg agatcccgcc actgcactcc agcctgggag 240
 acagagcgag actccgtctc aaaaaataaa aataaaaaata aaaaataata ataaaaataa 300
 aaaataaaa 309

<210> 5552
 <211> 310
 <212> DNA
 <213> Homo sapiens

<400> 5552
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 aaatacaaaa aattagccgg gcgtagtggc gggcgctgt agtcccagct acttgggagg 180
 ctgaggcagg agaattggcg gaacccggga ggcggaggtt gcagtgagcc gagatcccg 240
 cactgcactc cagcctgggc gacagagcga gactccgtct caaaaaaaaaa aaaaaaaaaa 300
 aaaaaaaaaa 310

<210> 5553
 <211> 247
 <212> DNA
 <213> Homo sapiens

<400> 5553
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 cccagctact tgggaagctg aggcaggaga atggcatgaa ccaggaggc ggagcttgca 180
 gtgagccgag atcgaccac tgcactccag cctgggagc acagcaagac tccgtctcaa 240
 aaaaaaa 247

<210> 5554
 <211> 175
 <212> DNA
 <213> Homo sapiens

<400> 5554
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 gcaggagaat ggcgtgaacc cgggaggcgg agcttgagc gagctgagat cgcgccattg 120
 cactccagcc tgggcgacag agccagactc agtctccaaa aaaaagaaga aaaga 175

<210> 5555
 <211> 311
 <212> DNA
 <213> Homo sapiens

<400> 5555
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 gtgggaggat cagcagggtca ggagatcgag accatcctgg ctaacacggt gaaaccccgt 120
 ctctgctaaa aatacaaaaa attagccggg catggtggcg ggcgcctgta gtcccagcta 180
 ctccggaggc tgaggcagga gaatggcgtg aaccaggag gcgcagcttt cagtgaagccg 240
 agatcgcgcc actgcactcc agcctgggag acagagctaa actccgtctc aaaaaacaaa 300
 acaaaacaaa a 311

<210> 5556
 <211> 183
 <212> DNA
 <213> Homo sapiens

<400> 5556
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 cactccagcc tgggagacag agcagagactc cgtctcaaaa aaaaaaaaaa aaataataat 180
 gaa 183

<210> 5557
 <211> 292
 <212> DNA
 <213> Homo sapiens

<400> 5557
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 gagatcgaga ccatcctggc taacacgggtg aaaccttgct tctactaaaa atacaaaaat 120
 tagccgggca tagtggcggtg cgctgtagt cctagctact cgggaggctg aggcaggaga 180
 atggcggtgaa cccgggagggt ggagcttgca gtgagctgag attgcgccac tgcactccag 240
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<210> 5558
 <211> 93
 <212> DNA
 <213> Homo sapiens

<400> 5558
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 ccgtctcaaa aaaaaaaaaa aaaaaaaaga aaa 93

<210> 5559
 <211> 287
 <212> DNA
 <213> Homo sapiens

<400> 5559
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 ccatcctggc tgacacgggtg aaaccccgtc tctactaaaa atacaaaaaa atggccgggt 120
 gtggtggcga gcacctgcct gtagtcccag ctactcggga ggctgaggca ggagaatggc 180
 ttgaacccgg gaggcggagc ttgcagttag ccgagatcgc gccactgcac tccagcctag 240
 gcgacagagc aagactccct ctccaaaaaa aaaaaaaaaa aaaaaaa 287

[illegible]

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<212> DNA
<213> Homo sapiens
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acacggtgaa	accccgctct	tactaaaaat	acaaaaaaat	tagccgggcg	tggtggcggg		120
cgctgtagt	cccagctact	cgggaggctg	aggcaggaga	atggcggtgag	ccggggaggc		180
ggagcttgca	gtgagcggag	atcgcgccac	cgcacttcag	cctgggcgcac	agagcaagac		240
tcttgtctca	aaaaaaaaaa	aaaaaagtgg	cag				273

<400> 5562							
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cgatgtcagg	agatcgatac	catcctggct	aacacgggtga	agccccatct	ctactaaaaa	120	
tacaaaaaat	tatccgggtg	tgggtggcggc	cgctgttagt	cccagctact	cgtgaggctg	180	
aggcaggaga	atggcattga	cccgggaggc	ggagcttgcc	gtgagcccgag	attgcgccac	240	
tgcactccaq	ctctgggcgac	aqagccagac	tcctgtctcaa	aaacaaacaa	acaaaa	296	

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<210> 5563
<211> 308
<212> DNA
<213> Homo sapiens
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<400> 5563						
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gatcacgagg	tcaggagatc	gagaccatcc	tggctaacgt	ggtgaaacc	cgtctctact	120
aaaagtacaa	ataaaaaatt	agccgggcgt	ggcgggtggc	gcctgtagtc	ccagctactc	180
gggaggctga	ggcaggagaa	tggcgtgaac	ccgggaggcg	gagcttgcag	tgagccgaga	240
ttgcgccact	gcactccagc	ctgggcgaca	cagcaagact	ccgtctcaaa	aaaaaaagtt	300
gaaaagct						308

2542

[illegible]

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cgggaggctg aagcaggaga atggcgtgaa cccaggaagc ggagcttgca gtgagccgag    60
atg'gcgccac tgcactccag cctgggtgac agagccagac tcggtctcaa aaaaaaaaaa    120
aaaaaaaaaa aaaagaaa

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$\langle 211 \rangle$ 243

<213> Homo sapiens

tcacgaggtc	aggagatcga	gaccatcctg	gctaacacg	tgaacccccg	tctctactaa	60
aaatccaaaa	aattagccgg	gcgtgggtgt	gggcgcctgt	agtcccagct	actcgggagg	120
ctaaggcaga	agaatggcag	gaacctggga	ggcggagctt	gcagtga gcc	gagatcacgc	180
cactgcactc	cagcctgggc	gacagagcga	gactccgtct	caaaaaaaaa	aaaaaaaaaa	240
att						243

<211> 296

<213> Homo sapiens

gcgcggtggc	tcaagcctgt	aatcccagca	ctttgggaaa	ccgaggcggg	tggatcacia	60
ggtcaggaga	tcgagaccat	cctggctaac	acggtgaaac	cccatctcta	ctaaaaaata	120
caaaaaaact	tagcggggtg	tgttggcggg	cgccctgtagt	ccagctctact	caggaggctg	180
aagcaggaga	atggcgtgaa	cccggggagg	ggagcttgca	gtgagcccgag	atcgcgccac	240
tgcactccag	ctctgggggac	agagcgagac	tccatctcaa	aaaaaaaaaa	aaaaaa	296

<211> 202

<213> Homo sapiens

ctactaaaaa	tacaaaaaat	tagccggg	cg	cctgtagt	cccagctact	60
cgaggaggctg	aggcaggaga	atggcg	tgaa	cccgggaggc	ggagcttgca	120
atcgcgccac	tgcactccag	cctgagtgac	agagcgagac	tccgtctcaa	aaaaaaaaa	180
aaaaaaaaag	gttaatatgt	aa				202

<211> 248

<212> DNA

<213> Homo sapiens

gaggtggatg	gatcatgagg	tcaggagatc	gagaccatcc	tggctaacac	agtgaaaccc	60
cgtctctact	aaaaatacaa	aaaattagcc	aggcgtgatg	gcgggcgcct	gtagtcccag	120
ctactcggga	ggctgaggca	ggagaatggc	gggaacctgg	gaggcggagc	ttgcagtgag	180
ccaagatcgc	gccactgcac	cccagcctgg	gtgacagagc	gagactccgt	ctcaaaaaaa	240
aaaaagaa						248

<211> 192

<212> DNA
<213> Homo sapiens

<400> 5569
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tgaggcagga gaatggcgtg aaccggggag gcagagcttg cagtgagccg agatcccgcc 120
actgcactcc agcctgggag acagagcgag actccgtctc aaaaaaaaaa aaaaaaaaag 180
aagtagacaa aa 192

<210> 5570
<211> 320
<212> DNA
<213> Homo sapiens

<400> 5570
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tcaggagatt gagaccatcc tggctaacac ggtgaaaccc cgtctctact aaaaatacaa 120
aaaaattagc cgggcgtggt ggcggggcacc tgtagtccca gctactcagg aggctgagac 180
aggagaatgg cgtgaacccg ggaggcagag cttgcagtga gccgagattg caccactgca 240
ctccagcctg ggcaacagag caagactccg tctcaaaaaa aaaaaagaaa aaagaaaaga 300
aaagaaaaga aaacgaagtc 320

<210> 5571
<211> 274
<212> DNA
<213> Homo sapiens

<400> 5571
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agaccatcct ggctaacacg gtgaaaccct ttctctacta aaaatacaaa aaattagccg 120
ggcgtgggtg cggtcgcccc tagtcccagc tactcgggag gctgaggcag aagaatggcg 180
tgaacctggg aggcagagct tgcagtgagc cgagatcggg ccactgcatt ccagcctggg 240
tgacagagcg agactccgct tcaaacaaaa aaaa 274

<210> 5572
<211> 308
<212> DNA
<213> Homo sapiens

<400> 5572
caggccgggc gcggtggctc acgcctgtaa tcccagcact ttgggaggcc gaggcgggag 60
gatcacgagg tcaggagatc gagaccatcc tggctaacac ggtgaaaccc cgtctctact 120
aaaaatacaa aaaattagcc gggcgtggtg gtgggcgcct gtaatccag ctactcggga 180
ggctgaggca ggagaatggc atgaacccaa gaggcggagc ttgcagtgag cccgggatagc 240
gccactgcag tccagcttgg gcgaaagagt gagactccgt ctcaaaaaaa aaaaaaagtt 300
gaataaac 308

<210> 5573
<211> 153
<212> DNA
<213> Homo sapiens

<400> 5573
gggcgtgggtg ggggggcgcct gtagtcccag ctactcggga ggctgaggca ggagaatggc 60
gtgaacccgg gaggcggagc ttgcagtgag ctgagatcac cccactgcac tccagcctgg 120
gcgacagagt gagactctgt ctcaaaaaaa aaa 153

<210> 5574
<211> 300
<212> DNA
<213> Homo sapiens

<400> 5574
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gatcgagacc atcctggcta acacgggtgaa accccatctc tactaaaaat acaaaaaaatt 120
agccggggcgt ggtagcgggc gcctgtagtc ccagctactc gggaggctga ggcaggagaa 180
tggcgtgaac ccgggaggcg gagcttgtag tgagccgaga tcgcgccact gcactccagc 240
ctgggcgcaga gagcgagact ccgtctcaaa aaaaaaaaaa aaaaaaaaaa aaaaaattaa 300

<210> 5575
<211> 308
<212> DNA
<213> Homo sapiens

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cggatcacga ggtcaggaga tcgagaccat cctggctaac acggtgaaac ccggtctcta 120
ctaaaaatac aaaaagtttag ccgggcgtgg tggcgggcgc ctgtagtccc atctactcgg 180
gaggctgagg caggagaatg gcgtagaacc ggggaagtgg gcttgtagta agccgagatc 240
gtgccactgc actccagtct gggcgacaga gcgagactcc gtctcagaaa ataaacaaac 300
aaaaaatc 308

<210> 5576
<211> 150
<212> DNA
<213> Homo sapiens

<400> 5576
ggcgccgtgta gtcccagcta ctccgggaggc tgaggcagga gaatggcgtg aaccggggag 60
gcggagcttg cagttagctg agatcgcgcc actgcactcc agcctgggag acagagcgag 120
actctgtctc aaaaaaaaaa agaattggc 150

<210> 5577
<211> 279
<212> DNA
<213> Homo sapiens

<400> 5577
aatcccagca ctttgggagg ccgaggcggg cagatcacga ggtcaggaga tcgagaccat 60
cctggctaac acggtgaaac cctgtctcta tgaaaaatac aaaaaattag ccgggcgtgg 120
tggcgggcgc ctgtagtccc agctacttgg gaggctgagg caggagaatg gtgtgaaccc 180
aggaggcaga gcttgtagtg agcgagatc gggccactgc agtccagcct gggcaacaga 240
gcaagactcc gtctcaata aaaaacaaaa caaaacaaa 279

<210> 5578
<211> 198
<212> DNA
<213> Homo sapiens

<400> 5578
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tcccagctac tcgggaggct gaggcaggag aatggcgtga acccaggagg cggcttgtag 120
tgagccgaga tcgcgccact gcactccagc ctgggtgaga gagcgagact ctgtctcaaa 180

198

<400>	5579						
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aagaccatcc	tggctaacac	ggtgaaaccc	cgtctctact	aaaaatacaa	aaaattagcc		120
gggcgtggta	gcgggcgccct	gtaatcgggg	gtactccgga	ggctgaggca	ggagaatggc		180
gtgaacccg	gagggcggagc	ttgcagtgag	ccgagattgc	gccactgcac	tccagcctgg		240
qcgacagagc	gagacttcac	ctcaaaaaaaaa	aaaaaaaaaaaa	aaaaaaa			287

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ccgagatcgc gccactgcac tccagcctgg atgacagagc aagactccgt ctcaaaaaaa    120
aaagaaaaaa agaca                                     135
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cctgtgggtcc	cagctactcg	ggaggctgag	gcaggagaat	ggtgtgaacc	cgggaggcgg		180
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catctcaaaa	aaaaaagaat	aagaaa					266

<400>	5582						
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tg	ggg	agggccg	agg	cggg	cgg		60
atcacg	aggt	caggag	atcg	agacc	atcct	ggcta	aacacg
gt	gaa	acccc	gtct	ctacta			120
aaaata	caaaa	aaatt	tagccg	ggcgt	ggtag	cgggc	gcctg
tagt	cccagc	tact	cgggag				180
gctg	agggcag	gaga	atggcg	tga	acccggg	aggc	ggagct
tt	ca	gtgagc	cgagat	cgcg			240
ccact	gcact	ccagc	ctggg	cgac	agagcg	agact	ccgctc
tca	aaaa	aaaaaa	at				300
tc							322

<400> 5583
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tctactaaaa	atacaaaaaa	ttagccaggc	ttggtggcgg	gcgcctgtag	tcccagctac	120
tcgggaggct	gaggcaggag	aatggcgtga	acccgggagg	cggagcttgc	agtgagctga	180
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attagaaact						250

<210> 5584
 <211> 142
 <212> DNA
 <213> Homo sapiens

<400> 5584						
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gtgagccgag	atcccgccac	tgcactccag	cctggggcgac	agagcgagac	tccgtctcaa	120
aaaaaaaaaa	aaaaaaaaatg	ga				142

<210> 5585
 <211> 40
 <212> DNA
 <213> Homo sapiens

<400> 5585						
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<210> 5586
 <211> 181
 <212> DNA
 <213> Homo sapiens

<400> 5586						
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caggagaatg	gcgtgaaccc	gggaggcgga	gcttgacgtg	agccgagatc	gcgccactgc	120
actccagcct	gggtgacaga	gcgagactcc	gtctcaaaaa	aaaaaaaaaa	aaaaaaagat	180
t						181

<210> 5587
 <211> 281
 <212> DNA
 <213> Homo sapiens

<400> 5587						
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atggcgggcg	cctgtagtcc	cagctactca	ggaggctaag	gcaggagaat	ggcatgaacc	180
caggaggcag	agcttgacgt	gagccaagat	ggcgccactg	cactccagcc	tgggcgacag	240
agcgagactc	cgtctcaaaa	aaaaaaagac	aacaacaaca	a		281

<210> 5588
 <211> 122
 <212> DNA
 <213> Homo sapiens

<400> 5588						
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atcgcgccac	tgctctccag	cctggggcgac	agagcaagac	tctgtctcaa	aaaaaaaaaa	120
ga						122

<210> 5589
 <211> 123
 <212> DNA
 <213> Homo sapiens

<400> 5589
 aggcaggaga atggcgtgaa cccgggaggc ggagcttgca gtgagccgag atccccccac 60
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<210> 5590
 <211> 176
 <212> DNA
 <213> Homo sapiens

<400> 5590
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 ggagaatggc atgaaccagc gaggcggagc ttgcagttagc tggagatcgc gccactgcac 120
 tccagcctgg gcgacagagc gagactccgt ctcaaaaaaa aaaaaaaaaa aaaatc 176

<210> 5591
 <211> 270
 <212> DNA
 <213> Homo sapiens

<400> 5591
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 gtgaaacccc gtctctacta aaaatacaaa aaattagccg ggctgtggtg cgggcgcctg 120
 tagtcccagc tactcgggag actgaggcag gagaatggcg tgaacccggg aggcggagct 180
 ttgcagttagc cgagatcgcg cccctgcact ccagcctggg cgacagagcg agactccgcc 240
 tcgaaaaaac aaaaacaaaa acacaaagtc 270

<210> 5592
 <211> 301
 <212> DNA
 <213> Homo sapiens

<400> 5592
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 tcacgaggtc aggcagatcga gaccatcctg gctaacacgg tgaaaccccg tctctactaa 120
 aaatacaaaa aaaattagcc gggcgtgttg gcgggtgcct gtagtcccag ctactcggga 180
 ggctgaggca ggagaatggc atgaaccagc gaggcggagc ttgcagttagc ccgagattgt 240
 gccactgcac tccagcctgg gcaacagagc aagactctgt ctcaaaaaaa aaaaaaaaaa 300
 a 301

<210> 5593
 <211> 237
 <212> DNA
 <213> Homo sapiens

<400> 5593
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 tgggtggcggg cgctgtagt cccagccact cgggaggctg aggcaggaga atggcgtgga 120
 cccgggaggc ggagcttgca gtgagcggag atcgcgccac tgcactccag cctgggagcag 180
 tgagcaggac tccgtctcaa aaaaaaaaaa aagaaaagaa aaaaagaaag aaagaaa 237

<210> 5594
 <211> 301
 <212> DNA
 <213> Homo sapiens

<400> 5594
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 gtcaggagat cgagaccatc ctgggctaaca cggtgaaacc ccgtctctac taaaaataca 120
 aaaaattagc tgggcgctcg ggcgggcgcc tgtgggtccca gttactctgg aggctgaggc 180
 acgagaatgg cgtgaaccca ggaggcggag cttgcagcga gctgagatcg caccactcca 240
 ctccagcctg ggcaacagag cgagactctg tctcaaaaaa aaaaaaaaaa aaaaaaaaaat 300
 c 301

<210> 5595
 <211> 88
 <212> DNA
 <213> Homo sapiens

<400> 5595
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 aatccatctc aaaaaaaaaa aaaaaaag 88

<210> 5596
 <211> 278
 <212> DNA
 <213> Homo sapiens

<400> 5596
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 cgtagtggcg ggcgcctgta gtcccagcaa ctcgggaggt tgaggcagga gaatggtgtg 180
 aacctgggag gtggagcttg tagtgagccg agatcgcgcc actgcactct agcctgggca 240
 acacagcgag actccgtctc aaaaaaaaaa aaaaaaga 278

<210> 5597
 <211> 214
 <212> DNA
 <213> Homo sapiens

<400> 5597
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 gagccgaggt cgcgccactg cactccagcc tgggcgacag agcgagactc cgtctcaaaa 180
 aaaaaaaaaa aaaaaaaaaa aagattacac aata 214

<210> 5598
 <211> 299
 <212> DNA
 <213> Homo sapiens

<400> 5598
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 taaaaataca aaaaattagc ccgctgtggt ggcgagcgcc tgtagtccca gctacttggg 180
 aggctgaggc aggagaatgg catgaacccg ggaggtggag cttgcagtga gccgagatca 240
 caccaccgca ctccagcctg ggtgacagca cgagactccg tctcaaaaaa aagaaaaa 299

<210> 5599
 <211> 297
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (22)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (29)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (94)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (261)
 <223> n equals a,t,g, or c

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tactaaaaat acaaaagatt agccgggctg ggtggcgggc gcctgtagcc ccagctactc	180
gggaggctga ggcaggagaa tggcgtgaac ccgggaggcg gagcttgtag tgagccgaga	240
tcgcgccact gcactccagc ntgggcgaca gagcgagact ccgtctcaaa aaagaaa	297

<210> 5600
 <211> 177
 <212> DNA
 <213> Homo sapiens

<400> 5600	
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gcatgaaccc gggaggcgga gcttgtagtg agccgagatc gcgccactgc actccaccct	120
gggcgacaga gcgagactcc gcctcaaaaa aaaaaaaaaa aaaaaaaaaa gaaggtc	177

<210> 5601
 <211> 296
 <212> DNA
 <213> Homo sapiens

<400> 5601	
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aaaatacaaa aaaattagcc aggtgtggtg gcgggcacct gtagtcccag ctacttggga	180
ggctgaggca ggagaatggc gtgaaccccg gaggcggagc ttgcagttag ccgagatcgc	240
gccactgcac tctagcctgg gcaacagagc gagactccat ctcaaaaaaa aaaaaa	296

<210> 5602
 <211> 318

<212> DNA
<213> Homo sapiens

<400> 5602
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gggcggatca cgaggtcagg agatcgagac catactggct aacacggcga aaccccgctc 120
ctactaaaaa taccaaaaat tagctgggcg tggcggcggg cgctgtagt cctagctact 180
taggaggctg aggcaggaga atggagtga cccgggaggg ggagcttgca gtgagccaag 240
atcgcgccac tgcactccag cctgggcgac agagcgagac tccgtctcaa aaaaaaaaaa 300
aaaaaaaaaa aaagaaca 318

<210> 5603
<211> 275
<212> DNA
<213> Homo sapiens

<400> 5603
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taacacagtg aaaccctctc tctactgaaa atacaaaaaa aattatctgg gcatggtggc 120
gggcgctgt agtcccagct actcgggagg ctgaggcagg agaatggcgt gaacccggga 180
ggcggagctt gcagtgagcc gagatcgcg cactgcactc cagcctgggt gacagagtga 240
gactccgtct caaaaaaaaaa aaaaaaagaa aaaaa 275

<210> 5604
<211> 154
<212> DNA
<213> Homo sapiens

<400> 5604
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gttgagctga gctgagatag caccactgca ctccagcctg ggcgacagag cgagactccg 120
tctcaaaaaa aaaaaaaaaa aaaaaaaggg ccgc 154

<210> 5605
<211> 177
<212> DNA
<213> Homo sapiens

<400> 5605
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caggagaatg gcgtgaaccc gggaggcgga gcttgagctg agttgagatc gcgccactgc 120
actccagcct gggcgacaga gcgaaaactcc gtctcaaaaa aaaaaaaaaa agacaaa 177

<210> 5606
<211> 187
<212> DNA
<213> Homo sapiens

<400> 5606
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ctgaggcagg agaatggcgt gaacccggga ggcggagctt gcagtgagcc gagatcgcg c 120
cactgcactc cagcctgggc gacagagcca gactccgtcc ccagccacc aaaaaaaaaa 180
aacaatt 187

<210> 5607
<211> 307

<212> DNA
<213> Homo sapiens

<400> 5607
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catgagggtca ggagatcgag accatcctgg ctaacacggg gaaaccccat ctctactaaa 120
aatacaaaaa attagccagg cgtgggtggcg ggcgcctgta gtcccagcta ctcgaggaggc 180
tgaggcagga gaatggcggtg aacctgggag gcggagcttg cagtgcgccc agatcgcgcc 240
actgaactcc agcctgggag acagagcgag actccgtctc aaaaagaaaa taaaaaagaa 300
aaatttc 307

<210> 5608
<211> 166
<212> DNA
<213> Homo sapiens

<400> 5608
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caagactccg tctcaaaaaa aaaaaacaaa aaaaacatgt aggcag 166

<210> 5609
<211> 1209
<212> DNA
<213> Homo sapiens

<400> 5609
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agccgggcat agtgggtggcg gcctgtagtc ccagctactc gggaggctga ggcaggagaa 180
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cactttggga ggccaagggt ggagatcat ctgaggctcag gagttcgaga ccagcctgac 540
caaatggca aaaccccatc tctaataaaa atacaaaaaa attagccagg cgtgggtggta 600
tgtgcctgta atcacagcta ctaggaggcg tgaggcagga gaatcgctgg aaccaggaag 660
cgggattgta gtgagccaag atcgtgccat tgcactgcag cctgggtgac agagcaagac 720
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aaaaaaaaa 1209

<210> 5610
<211> 142
<212> DNA
<213> Homo sapiens

<400> 5610
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agtgcagcaa gatcgcgcca ctgcactcca gcctgggtga cagagcgaga ctccgtctca 120
aaaaaaaaa aaaaaaaact ta 142

<210> 5611
 <211> 306
 <212> DNA
 <213> Homo sapiens

<400> 5611							
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gaggctgagg	caggagaatg	gcgtgaaccc	gggaggcgga	gcttgacagt	agccgagatc		240
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aagact							306

<210> 5612
 <211> 3098
 <212> DNA
 <213> Homo sapiens

<400> 5612							
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<211> 131

<212> DNA

<213> Homo sapiens

<400> 5613

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<210> 5614

<211> 214

<212> DNA

<213> Homo sapiens

<400> 5614

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gcaaagattg	ctgectgctc	cttcctctgg	aagcttcgct	ccagaggggc	acccagcaga	180
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<210> 5615

<211> 1096

<212> DNA

<213> Homo sapiens

<400> 5615

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agctttatct	ccttttggtt	cccccaattta	taatttcagt	tcaggcccag	aaagatggaa	360
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agtgtctctg	cagctatgtc	atttatattg	attttccctg	tattattata	agcaaagcaa	480
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acctgaagtc	aggagttcga	gaccagcctg	accaacttgg	cgaaaccctg	tttctactaa	960
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gagaggctga ggcaggagaa tcgcttgaac ccgggaggca gaggttgcag tgaggcaaga	1080
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<210> 5616
 <211> 268
 <212> DNA
 <213> Homo sapiens

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gaacagcctt gggggtaaat gagtggaaact catggaaaga tctcagccca caaccttcca	180
cagaacaggc gcttctcaca cagtaagtag caggagtgcag gaggtctgcag gcatgaatcc	240
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<210> 5617
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 <212> DNA
 <213> Homo sapiens

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2571

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<213> Homo sapiens

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<212> DNA

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<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

<400> 5728

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<211> 282

<212> DNA

<213> Homo sapiens

<400> 5729

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<212> DNA

<213> Homo sapiens

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<211> 2037

<212> DNA
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<212> DNA
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<212> DNA
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2770

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 <213> Homo sapiens

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<210> 5845
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 <223> n equals a,t,g, or c

<220>
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 <222> (30)
 <223> n equals a,t,g, or c

<220>
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 <222> (32)
 <223> n equals a,t,g, or c

<220>
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 <222> (37)
 <223> n equals a,t,g, or c

<400> 5845
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<210> 5846
 <211> 1276
 <212> DNA
 <213> Homo sapiens

<400> 5846
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 <212> DNA
 <213> Homo sapiens

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<212> DNA
<213> Homo sapiens
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<212> DNA
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<210> 5906
<211> 273
<212> DNA
<213> Homo sapiens
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gcatgggtgc	acatgcctat	aatcccagct	actaggggag	ctaaggaagg	agaatcgctt	180
gaacctgqqa	ggcggaaggt	gcagtgagcc	gagatcggtc	cattgcactc	cagcctgggc	240

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273

<210> 5907
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<212> DNA
<213> Homo sapiens

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at 302

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<211> 283
<212> DNA
<213> Homo sapiens

<400> 5908
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cgacagagcc agactccatc tcaaaaaaaaa aaaaaaaaaa aaa 283

<210> 5909
<211> 184
<212> DNA
<213> Homo sapiens

<400> 5909
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aacctgggag gcggagcttg cagtgagccg agatcgcgcc actgcactcc agcctgggcg 120
acagagcgag agtccgtctc aaaaaaaaaa aaaaaaaaaa aaagaaaaaa gaacaaacaa 180
cagc 184

<210> 5910
<211> 147
<212> DNA
<213> Homo sapiens

<400> 5910
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gcagtgagcc gagatcgcg cactgcactc cagcctgggc gacagagcga gactccatct 120
caaaaaaaaa aaaaaaaaaa aattgtg 147

<210> 5911
<211> 235
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (230)

<223> n equals a,t,g, or c

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tagccgggcg tggtagggga cgcctgtagt cccagctact cgggaggctg aggcaggaga 120
atggcgtgaa cccgggaggc ggagcttgca gtgagccgag atcgcgccac tgcactccag 180
cctgggagac agagcgagac tccgtctcaa aaaaaaaaaa aaaaaaaaaan aataa 235

<210> 5912
<211> 143
<212> DNA
<213> Homo sapiens

<400> 5912
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ttgcagtgag ccgagatcgc gccactgcac tccagcctgg gcgacagagc gagactccgt 120
ctcaaaaaaa aaaaaaagaa atg 143

<210> 5913
<211> 183
<212> DNA
<213> Homo sapiens

<400> 5913
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tgaggcagga gaatggcgtg aacccgggag gtggagcttg cagtgaagctg agatcgtgcc 120
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aaa 183

<210> 5914
<211> 196
<212> DNA
<213> Homo sapiens

<400> 5914
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aaaaaaaaaa aatgac 196

<210> 5915
<211> 162
<212> DNA
<213> Homo sapiens

<400> 5915
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agccgagatc ccgccactgc actccagcct gggcgacaga gcgagactcc gtctcaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaagaaca aa 162

<210> 5916
<211> 100
<212> DNA
<213> Homo sapiens

<400> 5916

[illegible]

```
<210> 5922
<211> 175
<212> DNA
<213> Homo sapiens
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cactccagcc tgggcgacag agccagactc agtctccaaa aaaaagaaga aaaga          175
```

```
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<211> 279
<212> DNA
<213> Homo sapiens
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cgccttgacg	tgagccgaga	tcgcgccact	gcactccagc	ctgggcgaca	gagcgaagat		240
ccgtctcaaa	aaaaaagaaa	aaaaaaaaaa	aaaaaaaaaa				279

```
<210> 5924
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<212> DNA
<213> Homo sapiens
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tggcgtgaac	ccgggaggcg	gagcttgcag	tgagcccgaga	tcgcgccata	gcactccagc		240
ctgggcgaca	gagcgaact	ccgtctcaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaattaa		300

```
<210> 5925
<211> 150
<212> DNA
<213> Homo sapiens
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<400> 5925
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gcgagacttg cagtgaactg agatcgcgcc actgcactcc agcctgggag acagagcgag      120
actctgtctc aaaaaaaaaa aagaattggc                                     150
```

```
<210> 5926
<211> 142
<212> DNA
<213> Homo sapiens
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```
<400> 5926
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aaaaaaaaaa aaaaaaaatg ga                                     142
```


[illegible]

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<210> 5928
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<212> DNA
<213> Homo sapiens
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<210> 5929
<211> 368
<212> DNA
<213> Homo sapiens
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```
<210> 5930
<211> 4704
<212> DNA
<213> Homo sapiens
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2846

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<210> 5931
 <211> 1090
 <212> DNA
 <213> Homo sapiens

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tgagtgaaga	catgtgggtg	ttgggttttt	gtccttgtga	tagtttgctg	agaatgatgg	300
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agttaagacc	aaaacatctc	atat tt tca	tggagcttcc	tgccaaaaca	aatactggtt		1020
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<211> 168
<212> DNA
<213> Homo sapiens
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<212> DNA
<213> Homo sapiens
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<212> DNA
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[illegible]

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<211> 142
<212> DNA
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aaaaaaaaaa aaaaaaatg ga 142

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<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<213> Homo sapiens

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<210> 5989
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<212> DNA
<213> Homo sapiens

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 <213> Homo sapiens

<400> 6039							60
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tagggttgag	tggtgttcca	gtttggaaca	agagtccact	attaaagaac	gtggactcca		240
acgtcaaaag	gcgaaaaacc	gtctatcagg	gcgatggccc	actacgtgaa	ccatcaccct		300
aatcaagttt	tttggggctg	aggtgccgta	aagcactaaa	tcggaaccct	aaagggagcc		360
cccgatttag	agcttgacgg	ggaaagccgg	cgaacgtggc	gagaaaggaa	gggaagaaag		420
cgaaaggagc	gggcgctagg	gcgctggcaa	gtgtagcggg	cacgctgcgc	gtaaccacca		480
cacccgccgc	gcttaatgcg	ccgctacagg	gcgcgtccat	tcgccattca	ggctgcgcaa		540
ctgttgggaa	gggcgatcgg	tgcgggcctc	ttcgctatta	cgccagctgg	cgaaaggggg		600
atgtgctgca	aggcgattaa	gttgggtaac	gccagggttt	tcccagtcac	gacgttgtaa		640
aacgacggcc	agtgaattgt	aatacgaact	actatagggc				

<210> 6040
 <211> 513
 <212> DNA
 <213> Homo sapiens

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agggcgaaaa	accgtctatc	agggcgatgg	cccactacgt	gaaccatcac	cctaatacaag		180
ttttttgggg	tcgaggtgcc	gtaaagcact	aaatcggaac	cctaaaggga	gcccccgatt		240
tagagcttga	cgggggaaag	cggcgaaact	ggcgagaaag	gaaggggaaga	aagcgaaagg		

agcggg	cgct	agggcgctgg	caagtgtagc	ggtcacgctg	cgcgtaacca	ccacacccgc	300
cgcgctta	aat	gcgccgtac	agggcgctc	cattcgccat	tcaggctgcg	caactgttgg	360
gaagggcgat		cggtgcgggc	ctcttcgcta	ttacgccagc	tggcgaaagg	gggatgtgct	420
gcaaggcgat		taagttgggt	aacgccaggg	ttttccag	cacgacgttg	taaaacgacg	480
gccagtgaat		tgtaatacga	ctcactatag	ggc			513

<210> 6041
 <211> 612
 <212> DNA
 <213> Homo sapiens

<400> 6041								
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aatcccttat	aa	atcaaaa	ag	aatagaccga	gatagggttg	agtgttggtc	cagtttggaa	120
caagagtcca	ct	attaaaga		acgtggactc	caacgtcaaa	gggcgaaaaa	ccgtctatca	180
ggg	cgatggc	ccactacgtg		aaccatcacc	ctaatcaagt	tttttgggg	cgaggtgccc	240
t	aaagcacta	aatcgggaacc		ctaaagggag	cccccgattt	agagcttgac	ggggaaagcc	300
ggcgaacgtg		g	cgagaaagg	aaggggaagaa	agcgaaagga	gcgggcgcta	gggcgctggc	360
a	agtgtagcg	gtcacgctgc		gcgtaaccac	cacacccgcc	gcgcttaatg	cgccgctaca	420
gggcgcgtcc		attcgccatt		caggctgcgc	aactgttggg	aagggcgatc	ggtgcggggc	480
t	cttcgctat	tacgccagct		ggcgaaaggg	ggatgtgctg	caaggcgatt	aagttgggta	540
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tcactatag		gc						612

<210> 6042
 <211> 640
 <212> DNA
 <213> Homo sapiens

<400> 6042										
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tagggttgag	tg	ttgttcca		gtttggaaca		agagtccact	attaaaga	aac	gtggactcca	180
acgtcaaagg	gc	gaaaaaac		gtctatcagg		gcgatggccc	actacgtgaa		ccatcaccc	240
aatcaagttt	tt	tggggtcg		aggtgccgta		aagcactaaa	tcggaacc	ct	aaagggagcc	300
ccc	gatttag	agcttgac	gg	gaaagccgg		cgaacgtggc	gagaaagg	gaa	gggaagaa	360
cgaaaggagc	gg	gcgctagg		gcgctggcaa		gtgtagcgg	cacgctgcgc		gtaaccacca	420
cacccgccgc	g	cttaatgcg		ccgctacagg		gcgcgtccat	tcgccattca		ggctgcgcaa	480
ctgttgggaa	gg	gcgatcgg		tgccggcctc		ttcgctatta	cgccagctgg		cgaaaggggg	540
atgtgctgca	agg	cgattaa		gttgggtaac		gccagggttt	tcccagtcac		gacgttgtaa	600
aacgacggcc	agt	gaattgt		aatacga	ctc	actatagggc				640

<210> 6043
 <211> 640
 <212> DNA
 <213> Homo sapiens

<400> 6043										
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tttttaacca	at	aggccgaa		atcggcaaaa		tcccttataa	atcaaaa	agaa	tagaccgaga	120
tagggttgag	tg	ttgttcca		gtttggaaca		agagtccact	attaaaga	aac	gtggactcca	180
acgtcaaagg	gc	gaaaaaac		gtctatcagg		gcgatggccc	actacgtgaa		ccatcaccc	240
aatcaagttt	tt	tggggtcg		aggtgccgta		aagcactaaa	tcggaacc	ct	aaagggagcc	300
ccc	gatttag	agcttgac	gg	gaaagccgg		cgaacgtggc	gagaaagg	gaa	gggaagaa	360
cgaaaggagc	gg	gcgctagg		gcgctggcaa		gtgtagcgg	cacgctgcgc		gtaaccacca	420
cacccgccgc	g	cttaatgcg		ccgctacagg		gcgcgtccat	tcgccattca		ggctgcgcaa	480
ctgttgggaa	gg	gcgatcgg		tgccggcctc		ttcgctatta	cgccagctgg		cgaaaggggg	540
atgtgctgca	agg	cgattaa		gttgggtaac		gccagggttt	tcccagtcac		gacgttgtaa	600

[illegible][illegible][illegible][illegible][illegible][illegible][illegible]

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0	0	1	4	9	16	25	36	49	64	81	100	121	144	169	196	225	256	289	324	361	400	441	484	529	576	625	676	729	784	841	900	961	1024	1089	1156	1225	1296	1369	1444	1521	1600	1681	1764	1849	1936	2025	2116	2209	2304	2401	2500	2601	2704	2809	2916	3025	3136	3249	3364	3481	3600	3721	3844	3969	4096	4225	4356	4489	4624	4761	4900	5041	5184	5329	5476	5625	5776	5929	6084	6241	6400	6561	6724	6889	7056	7225	7396	7569	7744	7921	8100	8281	8464	8649	8836	9025	9216	9409	9604	9801	10000

[illegible]

<211> 639
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (88)
<223> n equals a,t,g, or c

<400> 6050
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agggttgagt gttgttccag tttggaacaa gagtccacta ttaaagaacg tggactccaa 180
cgtcaaaggg cgaataaccg tctatcaggg cgatggccca ctacgtgaac catcacccta 240
atcaagtttt ttgggggtcga ggtgccgtaa agcactaaat cggaacccta aaggaggccc 300
ccgatttaga gcttgacggg gaaagccggc gaacgtggcg agaaaggaa ggaagaaagc 360
gaaaggagcg ggcgctaggg cgctggcgaag tgtagcggtc acgctgcgcg taaccaccac 420
accgcccgcg cttaatgcgc cgctacaggg cgcgtccatt cgccattcag gctgcgcaac 480
tgttgggaag ggcgcatcgg ggcggcctct tcgctattac gccagctggc gaaaggggga 540
tgtgctgcaa ggcgattaag ttgggtaacg ccagggtttt cccagtcacg acgttgtaaa 600
acgacggcca gtgaattgta atacgactca ctatagggc 639

<210> 6051
<211> 648
<212> DNA
<213> Homo sapiens

<400> 6051
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cagctcattt ttttaaccaat aggccgaaat cggcaaaatc ccttataaat caaaagaata 120
gaccgagata ggggttgagt ttgttccagt ttggaacaag agtccactat taaagaacgt 180
ggactccaac gtcaaagggc gaaaaaccgt ctatcagggc gatggcccac tacgtgaacc 240
atcaccctaa tcaagttttt tgggggtcgag gtgccgtaaa gcactaaatc ggaaccctaa 300
agggagcccc cgatttagag cttgacgggg aaagccggcg aacgtggcga gaaaggaagg 360
gaagaaagcg aaaggagcgg gcgctagggc gctggcaagt gtagcggcga cgctgcgcgt 420
aaccaccaca cccgcgcgc ttaatgcgcc gctacagggc gcgtccattc gccattcagg 480
ctgcgcaact gttgggaagg gcgcatcggg cgggcctctt cgctattacg ccagctggcg 540
aaagggggat gtgctgcaag gcgattaagt tgggtaacgc cagggttttc ccagtcacga 600
cgttgtaaaa cgacggccag tgaattgtaa tacgactcac tatagggc 648

<210> 6052
<211> 624
<212> DNA
<213> Homo sapiens

<400> 6052
tattttgtta aaattcgcgt taaatttttg ttaaaccagc tcatttttta accaatagggc 60
ggaaatcggc aaaatccctt ataaatcaaa agaataagacc gagatagggg tkagtgttgt 120
tccagtttgg aacaagagtc cactattaaa gaacgtggac tccaacgtca aagggcgaaa 180
aaccgtctat cagggcgatg gccactacg tgaaccatca ccctaataca gttttttggg 240
gtcagaggtg cgtaaagcac taaatcgga ccctaaaggg agccccgat ttagagcttg 300
acgggggaaag ccggcgaacg tggcgagaaa ggaagggaag aaagcgaaag gagcgggcgc 360
tagggcgctg gcaagtgtag cggtcacgct gcgcgtaacc accacacccg ccgcgcttaa 420
tgcgccgcta cagggcgctt ccattcgcca ttcaggctgc gcaactgttg ggaaggcgga 480
tcggtgcggg cctcttcgct attacgccag ctggcgaaa ggggatgtgc tgcaaggcga 540
ttaagttggg taacgccagg gttttccag tcacgacgtt gtaaaacgac ggccagtgaa 600
ttgtaatac actcactata gggc 624

3950003-094004

<210> 6053
<211> 509
<212> DNA
<213> Homo sapiens

<400> 6053
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cgaaaaaccg tctatcaggg cgatggccca ctacgtgaac catcacccta atcaagtttt 120
ttggggtcga ggtgccgtaa agcactaaat cggaacccta aagggagccc ccgatttaga 180
gcttgacggg gaaagccggc gaacgtggcg agaaaggaag ggaagaaagc gaaaggagcg 240
ggcgctaggg cgctggcaag tgtagcggtc acgctgcgcg taaccaccac acccgccgcg 300
cttaatgcgc cgctacaggg cgcgtccatt cgccattcag gctgcgcaac tgttggggaag 360
ggcgatcggg gcgggcctct tcgctattac gccagctggc gaaaggggga tgtgctgcaa 420
ggcgattaag ttgggtaacg ccagggtttt cccagtcacg acgttgtaaa acgacggcca 480
gtgaattgta atacgactca ctatagggc 509

<210> 6054
<211> 654
<212> DNA
<213> Homo sapiens

<400> 6054
aaatacgcag caggaaattg taagcgtaa tattttgtta aaattcgcgt taaatttttg 60
ttaaatcagc tcatttttta accaataggc cgaaatcggc aaaatcccctt ataaatcaaa 120
agaatagacc gagatagggg tgagtgttgt tccagtttgg aacaagagtc cactattaaa 180
gaacgtggac tccaacgtca aagggcgaaa aaccgtctat cagggcgatg gccactacg 240
tgaaccatca ccctaataca gttttttggg gtcgaggtgc cgtaaagcac taaatcggaa 300
ccctaaaggg agccccgat ttagagcttg acggggaaaag ccggcgaaacg tggcgagaaa 360
ggaaggggaag aaagcgaaaag gagcgggccc tagggcgctg gcaagtgtag cggtcacgct 420
gcgcgtaacc accacacccg ccgcgcttaa tgcgcgcgta cagggcgcgct ccattcgcca 480
ttcaggctgc gcaactgttg ggaagggcga tcgggtgcggg cctcttcgct attacgccag 540
ctggcgaaaag ggggatgtgc tgcaaggcga ttaagttggg taacgccagg gttttcccag 600
tcacgacggt gtaaaacgac ggccagtgaa ttgtaatacg actcactata gggc 654

<210> 6055
<211> 546
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (20)
<223> n equals a,t,g, or c

<400> 6055
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tccactatta aagaacgtgg actccaacgt caaagggcga aaaaccgtct atcagggcga 120
tgggccacta cgtgaaccat caccctaatac aagttttttg gggtcgaggt gccgtaaagc 180
actaaatcgg aaccctaaag ggagcccccg atttagagct tgacggggaa agccggcgaa 240
cgtggcgaga aaggaaggga agaaagcgaa aggagcgggc gctagggcgc tggcaagtgt 300
agcggtcacg ctgcgcgtaa ccaccacacc cgccgcgctt aatgcgccgc tacagggcgc 360
gtccattcgc cattcaggct gcgcaactgt tgggaagggc gatcgggtgc ggcctcttcg 420
ctattacgcc agctggcgaa agggggatgt gctgcaaggc gattaagttg ggtaacgcca 480
gggttttccc agtcacgacg ttgtaaaacg acggccagtg aattgtaata cgactcacta 540
tagggc 546

<210> 6056
<211> 654

<212> DNA
<213> Homo sapiens

<400> 6056
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ttaaatacagc tcatttttta accaataggg cgaaatcggc aaaatccctt ataaatcaaa 120
agaatagacc gagatagggg tgagtgttgt tccagtttgg aacaagagtc cactattaaa 180
gaacgtggac tccaacgtca aagggcgaaa aaccgtctat cagggcgatg gccactacg 240
tgaaccatca ccctaataca gttttttggg gtcgaggtgc cgtaaagcac taaatcggaa 300
ccctaaaggg agcccccgat ttagagcttg acgggggaaag ccggcgaaac tggcgagaaa 360
ggaaggggaa aaagcgaaaag gagcggggcg tagggcgctg gcaagtgtag cggtcacgct 420
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ttcaggctgc gcaactgttg ggaagggcga tcgggtgcgg cctcttcgct attacgccag 540
ctggcgaaaag ggggatgtgc tgcaaggcga ttaagttggg taacgccagg gttttcccag 600
tcacgacgtt gtaaaacgac ggccagtga tttgtaatac actcactata gggc 654

<210> 6057
<211> 1232
<212> DNA
<213> Homo sapiens

<400> 6057
gcaaagcctc ttctaagaat agctgtgaag ggagctggaa gctatgagat cagaatgaat 60
aataattttt gcatttcaca caaaagccag gtaggaagta aagcataatg ggggcctctt 120
ggatgccagg tgtttaacac ctgatggcat ctaatcctca caaaaacctt cactggtgcc 180
accatgccca gatgagacat gagaggggtct gagaggctga ggaacctgcc cgttgtctca 240
ccacaaatgc tgaccagacc aactgctcac cctggccccc cgccccagc ccccaaacc 300
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tcccagaaac ctttccccta tgtggatgta accttctcga gacctgcttt tggagttaa 420
cctgtgctga aggggcagag aaaaatccta tggcaggagg ggcacttgag ataagcctca 480
taggaggaga gaagcttctc cctgtgtgga aggaggcagc acacaggcca cagagaggcg 540
cagaagggac aactgaggcc aagagaggcg gaaggtcccc agacggggtt tctaaaatat 600
ctttctctga atagcatttt tacttaaatt tgatatgcaa atgcagataa ttggtattca 660
tgtaaatatt tactgcttaa aacagaaagt tacttgtaat aggccaggca cagtggctca 720
cgctgtaat cccagcactt tgggaggctg aggcaggcag atcacgaggt caaaagatcg 780
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agaactgcat gtgtggggcc ggccgctgtg ctcacgcctg taattcccgc attttgagg 1140
gccgagggtg gtggatccct tgagcccagg agtttgagac agcctggaca acatggcaaa 1200
gccctgtcaa aaaatacaaaa aaattaaaaa aa 1232

<210> 6058
<211> 1232
<212> DNA
<213> Homo sapiens

<400> 6058
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aataattttt gcatttcaca caaaagccag gtaggaagta aagcataatg ggggcctctt 120
ggatgccagg tgtttaacac ctgatggcat ctaatcctca caaaaacctt cactggtgcc 180
accatgccca gatgagacat gagaggggtct gagaggctga ggaacctgcc cgttgtctca 240
ccacaaatgc tgaccagacc aactgctcac cctggccccc cgccccagc ccccaaacc 300
agtcctttct acaacctgct ctctctccaa atagcagtag tcagaggctg tgctgaggcc 360
tcccagaaac ctttccccta tgtggatgta accttctcga gacctgcttt tggagttaa 420
cctgtgctga aggggcagag aaaaatccta tggcaggagg ggcacttgag ataagcctca 480
taggaggaga gaagcttctc cctgtgtgga aggaggcagc acacaggcca cagagaggcg 540

<211> 2249
<212> DNA
<213> Homo sapiens

<400> 6060
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agccagcgag tgctcagagc tgctgaggca gcttgtccag gaggcactgc agtgggaagc 120
tggggaggcc tcatctgaca gcatcgagct gagccccatc aggtgagcct ggcggcccag 180
gaagggtctg tctatgtgag ctggcggctc ctccccagct gccttgctgc cagggtcctgc 240
caaccatgta caagtcctac acagcactac ctctctgat cttcacatgc attagtgtgc 300
ggctgcagct gagatggttc acgctcagag gaggcagccc cctgccatgg ccctatagta 360
catttgccgc acaggctgcc tccagagccc catgctttcc atttatctag gctgcctccc 420
aaatgtggct gcctcccaga tgtgcctgtc agagagggga cgaggggaga caagcaggcc 480
atctcctctg caccaaggcc ttgctgagca cagtggacat gggcagttaa atataacaga 540
aaggagggtg gctatgctcg aaggccctg gaggctgagt agtccagtgg caggagctcg 600
agcttttgag ccagccctgg cctctctacc gtgtgacaat tccctttacc tttctgagcc 660
tcgtactcag cctccataag atatgtgcaa agagctgggc acagtggctc atgcctgtaa 720
ttccagcact ttgggaggct gagatgggca gattgcttga ggccaggagt ttgagcccag 780
cctgggcaat atattggaat cctgtctcta caaaaaaaaa aaaaaaagaa gagtgggtgt 840
gcacgcctgt agtcccagct actcggagg ctgagggtggg aggatcactt gagcccagaa 900
ggtagaagct gcaatgagct gagattgcag cactgcagtc cagcctgggc aacagagtga 960
ggcctgaaa agaaaagaaa agaaaggaag gggggaaggg aggggaaagaa agaaagaaaa 1020
agaaaggaag gaaggaagga aggaaggaag gaaggaaagg aaggaaggaa aggaaagaag 1080
gaaggaagga aggaaaaaaa aaagatttag gcaaacacac ctgctttgca ggatcattag 1140
gattaaatga gatagtgcag gcagggcaca gagtggagggt gagtcaacat tgaataaatc 1200
aaaggccttc tggaacgggt cccagctgtt cccacctgtc tgtcattgggt gctgtctgtt 1260
ccccgtccac cctgcgctt actggctgtg gtaagtgggg ttctgtatgc acagtgcagg 1320
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agtaaatatc tcttgggcat ttactgtgta ccaggcacta tctaggcccc cagcatctta 1440
caacagagga tctcgttggg tctttaggag gcagagcagg gattcccata tgcattatac 1500
agattcgcaa tctgaggttg ggagaactga agtgacctgc ccagagctgt gtggttaacc 1560
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ctagggaagg gctctgcaag gtgttgctaa cgtgcacttt tgctggcagt aagtatgatg 1680
agtacggctt cctgacgggt cccgactatg aggtggaaga cctgaagctg ctggccaaga 1740
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tgaggagcgc ctgggctgcc ctgggcgcatc ttgtgccctc agccgagctc aagcagctac 1860
tgccggcagg agtaccctgt gaacaccggc ctctgtgtctg gaggtggctg gtccacctcc 1920
gtgtccagca cctgcacact ccaggctgct accaggaact gctgagccgg ggccaggccc 1980
gcgagcacc tctgtcccgc cagattgagc tggacctgaa ccggaccttc cccaacaaca 2040
aacacttcac ctgccccacc tccagcttcc ccgacaagct ccgccgggtg ctgctggcct 2100
tctcctggca gaaccccacc atcggtact gccagggcct gaacaggtaa gccaccaaag 2160
cccagtgaag gtgtgatctt taccttttgg agcgcagggt cccaaccctc agactgtgga 2220
caggcagcca tctgtggcct gttaaagggg 2249

<210> 6061
<211> 7071
<212> DNA
<213> Homo sapiens

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<211> 336

<212> DNA

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<213> Homo sapiens

<400> 6081

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2025 年 1 月 25 日

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2025 年 1 月 25 日

[illegible]

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<211> 1763

<212> DNA

<213> Homo sapiens

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